

Level B Task - Solutions Summary

1. InsertOrderDetails:

A stored procedure to insert order data into SalesOrderDetail with optional parameters. Validates stock and adjusts inventory.

2. UpdateOrderDetails:

Allows selective updating of order details. Uses ISNULL to retain original values if NULL passed.

3. GetOrderDetails:

Retrieves all order details for a given OrderID. Returns message and code if not found.

4. DeleteOrderDetails:

Deletes a specific order line after validating input. Returns -1 for invalid inputs.

5. Date Functions:

Two functions format datetime to MM/DD/YYYY and YYYYMMDD respectively.

6. Views:

- vwCustomerOrders: Lists detailed order information.
- vwCustomerOrders_Yesterday: Filters for orders placed yesterday.
- MyProducts: Combines product, supplier, and category info, excludes discontinued items.

7. Triggers:

- trg_InsteadOfDeleteOrder: Ensures deletion of order and related details together.

- trg_CheckStockBeforeInsert: Prevents orders with insufficient stock.

Tested and written for Microsoft SQL Server 2019+ using AdventureWorks2019 schema.